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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/009,477	12/11/2001	Masahiro Imoto	1830/50521	4095	
23911	7590 12/03/2004		EXAMINER		
	& MORING LLP TUAL PROPERTY GROUP	RAO, DEEPAK R			
P.O. BOX 14		ART UNIT	PAPER NUMBER		
WASHINGT	ON, DC 20044-4300		1624		
			DATE MAILED: 12/03/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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			Application No.	Applicant(s)			
0.55	• " •		10/009,477	IMOTO ET AL.			
Office	Action Summary		Examiner	Art Unit			
			Deepak Rao	1624			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply							
THE MAILING D - Extensions of time n after SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply within Any reply received b earned patent term a	DATE OF THIS COMMUNICA nay be available under the provisions of 3 4S from the mailing date of this communic or specified above is less than thirty (30) do or is specified above, the maximum statuto on the set or extended period for reply will,	TION 7 CFR 1 ation. ys, a re ry period by statu	LY IS SET TO EXPIRE 3 MONTH(136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE ing date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠ · Responsiv	e to communication(s) filed o	n <u>16</u> .	<u>September 2004</u> .				
2a) This action	n is FINAL . 2b)	⊠ Th	is action is non-final.				
3) Since this	application is in condition for	allow	ance except for formal matters, pro	secution as to the merits is			
closed in a	accordance with the practice	under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Clair	ms						
4)⊠ Claim(s) 3	5,36 and 41-59 6 /are pendin	l a in th	ne application.				
, , , , –	above claim(s) <u>59</u> is/	Г	• •				
5)⊠ Claim(s) <u>3</u>	• • • • • • • • • • • • • • • • • • • •						
6)⊠ Claim(s) <u>3</u>	<u>5 and 41-58</u> ® /are rejected.						
7) Claim(s) _	is/are objected to.						
8) Claim(s) _	are subject to restriction	and/	or election requirement.				
Application Papers							
9) The specifi	cation is objected to by the E	xamin	ner .	•			
	· ·		cepted₂or b)□ objected to by the £	Examiner			
			e drawing(s) be held in abeyance. See				
			ction is required if the drawing(s) is obj				
		I I	Examiner. Note the attached Office				
Priority under 35 U	.S.C. § 119		\				
	•	forcin	n priority under 35 U.S.C. § 119(a)	(d) or (f)			
	Some * c) None of:	loleig	in priority under 33 0.3.C. § 119(a)	-(d) or (i).			
	ified copies of the priority do	lumar	ats have been received				
		I I	nts have been received in Application	on No			
<u> </u>		1	ority documents have been receive				
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Attachment(s)							
1) Notice of Reference			4) 🔲 Interview Summary				
	son's Patent Drawing Review (PTO-		Paper No(s)/Mail Da	ite			
3)	sure Statement(s) (PTO-1449 or PTC ate	P/SB/08	3) 5) ☐ Notice of Informal P. 6) ☐ Other:	atent Application (PTO-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 16, 2004 has been entered.

Claims 35-36 and 41-59 are pending in this application.

Election/Restriction

Applicant elected the species of Compound No. 2 (page 29, Table 1). The species represents a compound of formula (I) wherein A¹ and R⁷-R¹² are hydrogen and A² is 6-chloro-pyrid-3-yl. The elected species was not found in the prior art and the search was expanded (as per the guidelines of MPEP § 803.02) to the compounds of formula (I) wherein X is -CH₂-CH₂-; A¹ is H, phenyl, alkyl, alkyl substituted with phenyl; and A² is optionally substituted phenyl and art was found.

Claim 59 and the subject matter of compounds of formula (I) other than the above indicated subgenus are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to non-elected inventions.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 35 and 41-58 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 35 recites the limitation " an optionally substituted alkyl group, excluding dichloronitromethyl " in lines 5-6. There is insufficient antecedent basis for this limitation in the claim because the substituent list for the 'alkyl group' does not include 'chloro' and 'nitro' and therefore, the above recited group "dichloronitromethyl" can not be excluded (groups that are not included in the claim can not be excluded).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claim 36 is rejected under 35 U.S.C. 102(b) as being anticipated by CAPLUS Abstract 101:181274 (1984). The instant claim reads on reference disclosed compound, see compound having RN 92506-20-2 (depicted below for convenience):

RN 92506-20-2 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-methyl-2-phenyl- (9CI) (CA INDEX NAME)

2. Claims 36 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Roesner et al., U.S. Patent No. 4,156,778. The instant claims read on reference disclosed compound, see the compound 2-(3,4-diaminophenyl)-2-tetrahydropyrimidine hydrochloride (col. 7, lines 57-58) (depicted below for convenience):

 $CN \quad 1, 2\text{-Benzene diamine}, \, 4\text{-}(1, 4, 5, 6\text{-tetra hydro-1-methyl-2-pyrimidinyl})\text{-}, \, monohydrochloride}$

HC1

3. Claims 36, 41, 46-49 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Brimblecombe et al., CAPLUS 72:41409 (1970). The instant claims read on reference disclosed compounds, see the compound disclosed in the enclosed abstract, particularly those having 2-phenyl substituent (depicted below for convenience):

RN 26148-94-7 CAPLUS

CN Pyrimidine, 1-benzyl-1,4,5,6-tetrahydro-2-phenyl-, hydrochloride (8CI) (CA INDEX NAME)

🖶v HC1

RN 26148-95-8 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-phenethyl-2-phenyl-, hydrochloride (8CI) (CA INDEX NAME)

Фх НСЭ

RN 26148-99-2 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-2-phenyl-1-(3-phenylpropyl)-, sulfate (8CI)

4. Claims 36 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by GB 1,013,441. The instant claims read on reference disclosed compounds, see the compound disclosed page 9, EXAMPLE III (depicted below for convenience):

RN 3797-96-4 CAPLUS

CN Pyrimidine, 2-(2,6-dichlorophenyl)-1,4,5,6-tetrahydro-1-phenyl-, monohydrobromide

🗭 HBr

5. Claims 36 and 58 are rejected under 35 U.S.C. 102(b) as being anticipated by Riverdito et al., CAPLUS 115:8219 (1991). The instant claims read on reference disclosed compounds, see the compounds disclosed in the enclosed abstract (depicted below for convenience):

RN 52289-23-3 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1,2-diphenyl- (9CI) (CA INDEX'NAME)

RN 52289-26-6 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-(4-methoxyphenyl)-2-phenyl- (9CI) (CA INDEX NAME)

RN 52289-28-8 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-1-(4-methylphenyl)-2-phenyl- (9CI) (CA INDEX NAME)

RN 52289-36-8 CAPLUS

CN Pyrimidine, 1-(4-chlorophenyl)-1,4,5,6-tetrahydro-2-phenyl- (9CI) (CA INDEX NAME)

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RN 52289-27-7 CAPLUS

CN Pyrimidine, 2-(4-chlorophenyl)-1,4,5,6-tetrahydro-1-phenyl- (9CI) (CA INDEX NAME)

RN 134221-87-7 CAPLUS

CN Pyrimidine, 1,4,5,6-tetrahydro-2-(4-methoxyphenyl)-1-phenyl- (9CI) (CA INDEX NAME)

Note: The above references are representative of the searched subgenus. Claim 35 is extremely broad and covers many known compounds, e.g., 1,4,5,6-tetrahydropyrimidine, which is available in Aldrich Catalog 29,333-4.

Allowable Subject Matter

Claim 36 is allowed. The references of record do not teach or fairly suggest the claimed compounds.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deepak Rao whose telephone number is (571) 272-0672. The examiner can normally be reached on Tuesday-Friday from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Mukund Shah, can be reached on (571) 262-0674. If you are unable to reach Dr. Shah within a 24 hour period, please contact James O. Wilson, Acting-SPE of 1624 at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Deepak Rao Primary Examiner

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